PTO-1390 (Rev. 10-2004)
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ATTTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 56029-51044 DESIGNATED/ELECTED OFFICE (DO/EO/US) CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. PCT/US03/11802 INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED 15 April 2002 15 April 2003 TITLE OF INVENTION Regulated Attenuation of Live Vaccines to Enhance Cross-Protective Immunogenicity APPLICANT(S) FOR DO/EO/US CURTISS, III, Roy Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. is attached hereto (required only if not communicated by the International Bureau). b. X has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7 X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) لعا are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). Other items or information: Return Postcard

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S.

Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND T: Mail Stop PCT, Commissioner for Patents, P. . Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1,5) INTERNATIONAL APPLICATION NO. PCT/US03/11802			ATTORNEY'S DOCKET NUMBER 56029-51044		
21. X The following	fees are submitted:			CALCULATIONS	PTO USE ONLY
BASIC NATIONAL FEE (CFR 1.492(a)(1)–(5)):					
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO					
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO\$950.00					
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO					
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)					
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)				\$ 750	
Surcharge of \$130.00 for furnishing the eath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 130	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	40 - 20 =	20	X \$18.00	\$ 360	
Independent claims	11 -3=	8	× \$88.00	\$ 704	
MULTIPLE DEPENDE	NT CLAIM(S) (if applicable)		+ \$300.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 1,944	
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.				\$ 972	
SUBTOTAL =				\$ 972	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				s	
TOTAL NATIONAL FEE =				\$ 972	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
TOTAL FEES ENCLOSED =				\$ 972	
				Amount to be refunded:	\$
				Amount to be charged:	\$
a. A check in the amount of \$ to cover the above fees is enclosed.					
b. X Please charge my Deposit Account No. 20-0823 in the amount of \$ 972 to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 20-082.3 duplicate copy of this sheet is enclosed.					
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Daniel S. Kasten				A Kan	\sim
Thompson Coburn, LLP SIGNATURE One US Bank Plaza					
St. Louis, MO 63101 Daniel S NAME				S. Kasten	
			Reg. No.		
L			AEGIS ITATIC	AT HOMBER	

PATENT COOPERATION TREATY IN THE UNITED STATES RECEIVING OFFICE

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10

I hereby certify that this correspondence and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this \(\frac{1}{2} \frac{1}{1} \text{L} \) day of October, 2004 in an envelope as "Express Mail Post Office To Addressee" Mailing Label Number \(\frac{EV482531525US}{2} \) addressed to: Commissioner for Patents, MAIL STOP PCT, P.O. Box 1450, Alexandria, VA 22313-1450 -- Attn: DO/EO/US.

Daniel S. Kasten
Print or Type Name

Signature

In re international application of Washington University

International Application No. PCT/US03/11802

Authorized Officer

International Filing Date: 15 April 2003

For: Regulated Attenuation of Live Vaccines to Enhance

Cross-Protective Immunogenicity

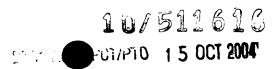
Commissioner for Patents MAIL STOP PCT P.O. Box 1450 Alexandria, VA 22313-1450

Attn: DO/EO/US

TRANSMITTAL

Enclosed herewith please find:

- 1. Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371;
- 2. Preliminary Amendment A;
- Replacement claims pages 75-78;
- 4. Copy of Response to Written Opinion filed in international application No. PCT/US03/11802; and
- 5. Duplicate copy of this letter.



Please be hereby authorized to charge our deposit account 20-0823 for the required fees and file said national phase application.

Respectfully submitted,

Daniel S. Kasten Reg. No. 45,363

Thompson Coburn LLP One US Bank Plaza

St. Louis, Missouri 63101

(314) 552-6000

(314) 552-7000 (fax)